## IN THE CLAIMS

- 1. (currently amended) A method of screening for therapeutic agents useful in the treatment of a disease selected from the group comprised in a group of diseases consisting of cardiovascular diseases, dermatological diseases, endocrinological diseases, metabolic diseases, cancer, gastroenterological diseases, muscle-skeleton diseases, neurological diseases, respiratory diseases, inflammation and urological diseases in a mammal, comprising the steps of
  - i) contacting a test compound with a NPEPPS polypeptide, and
  - ii) detecting detect binding of said test compound to said NPEPPS polypeptide.
- 2. (currently amended) A method of screening for therapeutic agents useful in the treatment of a disease selected from the group comprised in a group of diseases consisting of cardiovascular diseases, dermatological diseases, endocrinological diseases, metabolic diseases, cancer, gastroenterological diseases, muscle-skeleton diseases, neurological diseases, respiratory diseases, inflammation and urological diseases in a mammal, comprising the steps of
  - i) determining the activity of a NPEPPS polypeptide at a certain concentration of a test compound or in the absence of said test compound, and
  - ii) determining the activity of said polypeptide at a different concentration of said test compound.
- 3. (currently amended) A method of screening for therapeutic agents useful in the treatment of a disease emprised-in-a-group-of-diseases-consisting of cardiovascular diseases, dermatological diseases, endocrinological diseases, metabolic diseases, cancer, gastroenterological diseases, muscle-skeleton diseases, neurological diseases, respiratory diseases, inflammation and urological diseases in a mammal, comprising the steps of

- i) determining the activity of a NPEPPS polypeptide at a certain concentration of a test compound, and
- ii) determining the activity of a NPEPPS polypeptide at the presence of a compound known to be a regulator of a NPEPPS polypeptide.
- 4. (currently amended) The method of <u>claim 1</u> any of <u>claims 1 to 3</u>, wherein the step of contacting is in or at the surface of a cell.
- 5. (currently amended) The method of <u>claim 1</u> any of claims 1 to 3, wherein the cell is *in vitro*.
- 6. (currently amended) The method of <u>claim 1</u> any of claims 1 to 3, wherein the step of contacting is in a cell-free system.
- 7. (currently amended) The method of claim 1 any of claims 1 to 3, wherein the polypeptide is coupled to a detectable label.
- 8. (currently amended) The method of claim 1 any of claims 1 to 3, wherein the compound is coupled to a detectable label.
- 9. (currently amended) The method of <u>claim 1</u> any of claims 1 to 3, wherein the test compound displaces a ligand which is first bound to the polypeptide.
- 10. (currently amended) The method of <u>claim 1</u> <del>any of claims 1 to 3</del>, wherein the polypeptide is attached to a solid support.
- 11. (currently amended) The method of <u>claim 1</u> <del>any of claims 1 to 3</del>, wherein the compound is attached to a solid support.
- 12. (currently amended) A method of screening for therapeutic agents useful in the treatment of a disease selected from the group comprised in a group of diseases—consisting of cardiovascular diseases, dermatological diseases, endocrinological diseases, metabolic diseases,

cancer, gastroenterological diseases, muscle-skeleton diseases, neurological diseases, respiratory diseases, inflammation and urological diseases in a mammal, comprising the steps of

- i) contacting a test compound with a NPEPPS polynucleotide, and
- ii) <u>detecting</u> <del>detect</del> binding of said test compound to said NPEPPS polynucleotide.
- 13. (original) The method of claim 12 wherein the nucleic acid molecule is RNA.
- 14. (original) The method of claim 12 wherein the contacting step is in or at the surface of a cell.
- 15. (original) The method of claim 12 wherein the contacting step is in a cell-free system.
- 16. (original) The method of claim 12 wherein polynucleotide is coupled to a detectable label.
- 17. (original) The method of claim 12 wherein the test compound is coupled to a detectable label.
- 18. (currently amended) A method of diagnosing a disease selected from the group emprised in a group of diseases consisting of cardiovascular diseases, dermatological diseases, endocrinological diseases, metabolic diseases, cancer, gastroenterological diseases, muscleskeleton diseases, neurological diseases, respiratory diseases, inflammation and urological diseases in a mammal comprising the steps of
- i) determining the amount of a NPEPPS polynucleotide in a sample taken from said mammal, and
- ii) determining the amount of NPEPPS polynucleotide in healthy and/or diseased mammals.

## 19-20. (canceled)

- 21. (currently amended) A pharmaceutical composition for the treatment of a disease selected from the group comprised in a group-of-diseases consisting of cardiovascular diseases, dermatological diseases, endocrinological diseases, metabolic diseases, cancer, gastroenterological diseases, muscle-skeleton diseases, neurological diseases, respiratory diseases, inflammation and urological diseases in a mammal, comprising a therapeutic agent which regulates the activity of a NPEPPS polypeptide, wherein said therapeutic agent is
  - i) a small molecule,
  - ii) an RNA molecule,
  - iii) an antisense oligonucleotide,
  - iv) a polypeptide,
  - v) an antibody, or
  - vi) a ribozyme.
- 22. (currently amended) A pharmaceutical composition for the treatment of a disease selected from the group comprised in a group of diseases consisting of cardiovascular diseases, dermatological diseases, endocrinological diseases, metabolic diseases, cancer, gastroenterological diseases, muscle-skeleton diseases, neurological diseases, respiratory diseases, inflammation and urological diseases in a mammal, comprising a NPEPPS polynucleotide.
- 23. (currently amended) A pharmaceutical composition for the treatment of a disease selected from the group comprised-in-a-group-of-diseases-consisting of cardiovascular diseases, dermatological diseases, endocrinological diseases, metabolic diseases, cancer,

gastroenterological diseases, muscle-skeleton diseases, neurological diseases, respiratory diseases, inflammation and urological diseases in a mammal, comprising a NPEPPS polypeptide.

24-26. (canceled)